

**ABSTRACT OF THE DISCLOSURE**

A route discovery device and method in a mobile ad-hoc network. The route discovery device and method seamlessly maintain a route for providing service by establishing the service route while taking into account the efficiency  
5 of energy of a terminal in the mobile ad-hoc network. A mobile host broadcasts a service request message. One of relay hosts of the mobile hosts selects a service request message, calculates power information of the mobile host, includes the calculated power information of the mobile host in the power information included in the selected service request message and re-broadcast  
10 the service request message. A destination host of the mobile hosts selects a service request message, generates a service response message and transmits the service response message along a route of the selected message.